

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A computer readable recording medium having a data structure for managing reproduction duration of still pictures, comprising:

a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in a data area, the clip information file providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and

a playlist area storing at least one playlist, the playlist referencing the clip information file and including at least one playitem and at least one sub-playitem, the playitem providing navigation information indicating at least one still picture from a first file to reproduce and providing duration information for display of the still picture, and the sub-playitem providing navigation information for reproducing audio data from a second file.

2. (Currently Amended) The computer readable recording medium of claim 1, further comprising:

a data area storing the first and second files.

3. (Currently Amended) The computer readable recording medium of claim 1, wherein

the playitem provides navigation information for reproducing presentation data from the first file, the presentation data includes at least the still picture and related data associated with the still picture.

4. (Currently Amended) The computer readable recording-medium of claim 3, wherein the related data includes graphics data.

5. (Currently Amended) The computer readable recording-medium of claim 3, wherein the related data includes subtitle data.

6. (Currently Amended) The computer readable recording-medium of claim 3, wherein the presentation data is divided into one or more still picture units such that each still picture unit includes at least one still picture and associated related data.

7. (Currently Amended) The computer readable recording-medium of claim 1, further comprising:

a data area storing the first file, and the first file does not include audio data.

8. (Currently Amended) The computer readable recording-medium of claim 1, wherein the duration information indicates whether to display the still picture for one of a finite and an infinite period of time.

9. (Currently Amended) The computer readable recording-medium of claim 8, wherein the duration information indicates a length of time to display the still picture when the duration information indicates to display the still picture for a finite period of time.

10. (Currently Amended) A computer readable recording-medium having a data structure for managing reproduction duration of still pictures, comprising:

a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in a data area, the clip information file providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and

a playlist area storing at least one playlist file, the playlist file referencing the clip information file and including at least one playitem and at least one sub-playitem, the playitem providing navigation information indicating at least one still picture from a first data stream to reproduce and providing duration information for display of the still picture, the sub-playitem providing navigation information for reproducing an audio stream from a second data stream separate from the first data stream.

11. (Currently Amended) The computer readable recording-medium of claim 10, wherein the duration information indicates whether to display the still picture for one of a finite and an infinite period of time.

12. (Currently Amended) The computer readable recording-medium of claim 11, wherein the duration information indicates a length of time to display the still picture when the duration information indicates to display the still picture for a finite period of time.

13. (Currently Amended) A computer readable recording-medium having a data structure for managing reproduction duration of still pictures, comprising:

a data area storing presentation data, the presentation data being divided into a number of still picture units, each still picture unit including at least one still picture and associated related data, the related data not including audio data;

a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in the data area, the clip information file providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and

a navigation area storing at least one playlist, the playlist referencing the clip information file and including at least one playitem, the playitem indicating at least one of the still picture units to reproduce and providing duration information for display of the still picture in the still picture unit.

14. (Currently Amended) The computer readable recording-medium of claim 13, wherein the related data in at least one still picture unit includes graphics data.

15. (Currently Amended) The computer readable recording-medium of claim 13, wherein the related data in at least one still picture unit includes subtitle data.

16. (Currently Amended) The computer readable recording-medium of claim 13, wherein the data area stores the presentation data in a first clip file, and stores audio data in a second clip file.

17. (Currently Amended) The computer readable recording-medium of claim 16, wherein the playlist further includes at least one sub-playitem, the sub-playitem providing navigation information for reproducing the audio data from the second clip file.

18. (Currently Amended) The computer readable recording medium of claim 13, wherein each still picture unit includes only one still picture.

19. (Currently Amended) The computer readable recording medium of claim 13, wherein the duration information indicates whether to display the still picture for one of a finite and an infinite period of time.

20. (Currently Amended) The computer readable recording medium of claim 19, wherein the duration information indicates a length of time to display the still picture when the duration information indicates to display the still picture for a finite period of time.

21. (Currently Amended) A computer readable recording medium having a data structure for managing reproduction duration of still pictures, comprising:

a data area storing presentation data in a first clip file and audio data in a second clip file, the presentation data being divided into a number of still picture units, each still picture unit including at least one still picture and associated related data;

a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in the data area, the clip information file providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and

a playlist area storing at least one playlist, the playlist referencing the clip information file and including at least one playitem and at least one sub-playitem, the playitem providing navigation information indicating the presentation data from the first clip file to reproduce and providing duration information for display of each still picture indicated for reproduction,

the sub-playitem providing navigation information for reproducing the audio data from the second clip file.

22. (Currently Amended) The computer readable recording medium of claim 13, wherein the duration information indicates, for each still picture, whether to display the still picture for one of a finite and an infinite period of time.

23. (Currently Amended) The computer readable recording medium of claim 22, wherein the duration information indicates a length of time to display a still picture when the duration information of the playitem indicates to display a still picture for a finite period of time.

24. (Currently Amended) A method of recording a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising:

recording at least one clip information file in a clip information file area of the recording medium, each clip information file being associated with at least one stream file stored in a data area of the recording medium and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and

recording at least one playlist on the recording medium, the playlist referencing the clip information file and including at least one playitem and at least one sub-playitem, the playitem providing navigation information indicating at least one still picture from a first file to reproduce and providing duration information for display of the still picture, and the sub-playitem providing navigation information for reproducing audio data from a second file.

25. (Currently Amended) A method of reproducing a data structure for managing reproduction duration of at least one still picture recorded on a recording medium, comprising:

reproducing a playlist and at least one clip information file referenced by the playlist from a recording medium, each clip information file being associated with at least one stream file and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and

~~reproducing at least one playlist from the recording medium, the playlist including at least one playitem and at least one sub-playitem from the playlist, the playitem providing navigation information indicating at least one still picture from a first file to reproduce and providing duration information for display of the still picture, and the sub-playitem providing navigation information for reproducing audio data from a second file.~~

26. (Currently Amended) An apparatus for recording a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising:

~~a driver for driving~~ an optical recording device configured to record data on the recording medium;

~~a controller for controlling~~ configured to control the ~~driver~~ optical recording device to record at least one clip information file in a clip information file area of the recording medium, each clip information file being associated with at least one stream file stored in a data area of the recording medium and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and

the controller configured to control the optical recording device to record at least one playlist on the recording medium, the playlist referencing the clip information file and

including at least one playitem and at least one sub-playitem, the playitem providing navigation information indicating at least one still picture from a first file to reproduce and providing duration information for display of the still picture, and the sub-playitem providing navigation information for reproducing audio data from a second file.

27. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction duration of at least one still picture recorded on a recording medium, comprising:

~~a driver for driving an optical reproducing device configured to reproduce data recorded on the recording medium;~~

~~a controller for controlling the driver configured to control the optical reproducing device to reproduce a playlist and at least one clip information file referenced by the playlist from the recording medium, each clip information file being associated with at least one stream file and providing a map for the associated stream file, each map mapping presentation time information to address information for the associated stream file; and~~

~~the controller configured to control the optical reproducing device to reproduce at least one playlist from the recording medium, the playlist including at least one playitem and at least one sub-playitem from the playlist, the playitem providing navigation information indicating at least one still picture from a first file to reproduce and providing duration information for display of the still picture, and the sub-playitem providing navigation information for reproducing audio data from a second file.~~

28. (New) The method of claim 24, wherein

the playitem provides navigation information for reproducing presentation data from the first file, the presentation data includes at least the still picture and related data associated with the still picture.

29. (New) The method of claim 28, wherein the related data includes graphics data.

30. (New) The method of claim 28, wherein the related data includes subtitle data.

31. (New) The method of claim 28, wherein the presentation data is divided into one or more still picture units such that each still picture unit includes at least one still picture and associated related data.

32. (New) The method of claim 24, further comprising:

a data area storing the first file, and the first file does not include audio data.

33. (New) The method of claim 24, wherein the duration information indicates whether to display the still picture for one of a finite and an infinite period of time.

34. (New) The method of claim 33, wherein the duration information indicates a length of time to display the still picture when the duration information indicates to display the still picture for a finite period of time.

35. (New) The method of claim 25, wherein

the playitem provides navigation information for reproducing presentation data from the first file, the presentation data includes at least the still picture and related data associated with the still picture.

36. (New) The method of claim 35, wherein the related data includes graphics data.

37. (New) The method of claim 35, wherein the related data includes subtitle data.

38. (New) The method of claim 35, wherein the presentation data is divided into one or more still picture units such that each still picture unit includes at least one still picture and associated related data.

39. (New) The method of claim 35, further comprising:

a data area storing the first file, and the first file does not include audio data.

40. (New) The method of claim 25, wherein the duration information indicates whether to display the still picture for one of a finite and an infinite period of time.

41. (New) The method of claim 40, wherein the duration information indicates a length of time to display the still picture when the duration information indicates to display the still picture for a finite period of time.

42. (New) The apparatus of claim 26, wherein

the playitem provides navigation information for reproducing presentation data from the first file, the presentation data includes at least the still picture and related data associated with the still picture.

43. (New) The apparatus of claim 42, wherein the related data includes graphics data.

44. (New) The apparatus of claim 42, wherein the related data includes subtitle data.

45. (New) The apparatus of claim 42, wherein the presentation data is divided into one or more still picture units such that each still picture unit includes at least one still picture and associated related data.

46. (New) The apparatus of claim 26, further comprising:
a data area storing the first file, and the first file does not include audio data.

47. (New) The apparatus of claim 26, wherein the duration information indicates whether to display the still picture for one of a finite and an infinite period of time.

48. (New) The apparatus of claim 47, wherein the duration information indicates a length of time to display the still picture when the duration information indicates to display the still picture for a finite period of time.

49. (New) The apparatus of claim 27, wherein

the playitem provides navigation information for reproducing presentation data from the first file, the presentation data includes at least the still picture and related data associated with the still picture.

50. (New) The apparatus of claim 49, wherein the related data includes graphics data.

51. (New) The apparatus of claim 49, wherein the related data includes subtitle data.

52. (New) The apparatus of claim 49, wherein the presentation data is divided into one or more still picture units such that each still picture unit includes at least one still picture and associated related data.

53. (New) The apparatus of claim 27, further comprising:
a data area storing the first file, and the first file does not include audio data.

54. (New) The apparatus of claim 27, wherein the duration information indicates whether to display the still picture for one of a finite and an infinite period of time.

55. (New) The apparatus of claim 54, wherein the duration information indicates a length of time to display the still picture when the duration information indicates to display the still picture for a finite period of time.